

**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : SP-00629\_2 ~ C1216XT-30LXXK-NDEX-TCY-GLXXMW.IES**
**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] SP-00629\_2  
 [TESTLAB] VLS-245-981  
 [MANUFAC] Spectrum Lighting  
 [ISSUEDATE] 9/20/2017  
 [UPDATE] 3/9/2018  
 [LUMCAT] C1216XT-30L-xxK-ND-EX-TCY-GL  
 [LUMINAIRE] Nom. 12" Diam. x 16" H. Accent Biaxial Adjustable Downlight Cylinder  
 [OTHER] Internal Reflector, Narrow Beam  
 [OTHER] Clear Glass Lens, Flush with Lower Trim  
 [OTHER] 20.3 Degree Beam Angle  
 [OTHER] Aimed at 0 Degrees (Nadir)  
 [LAMPCAT] N/A, 19mm LES  
 [LAMP] N/A, 83 CRI  
 [OTHER] Total Luminaire Watts is approximate  
 [OTHER] LEDXT lumen output is the same for all available CCT's  
 [OTHER] This report prepared by Spectrum Lighting

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2794
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	86
Total Luminaire Watts	32.6
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.36
Spacing Criterion (90-270)	0.36
Spacing Criterion (Diagonal)	0.38
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.44 ft (Diameter)
Luminous Width (90-270)	0.44 ft (Diameter)
Luminous Height	0.00 ft

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00629\_2 ~ C1216XT-30LXXK-NDEX-TCY-GLXXMW.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	38824	41168	38218
55	21202	20772	21229
65	3630	4175	4182
75	5989	5533	4962
85	4504	5850	5966

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**CANDELA TABULATION**

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>	<u>202.5</u>
<b>0</b>	8346.235	8346.235	8346.235	8346.235	8346.235	8346.235	8346.235	8346.235	8346.235	8346.235
<b>5</b>	7192.181	7400.416	7287.443	7377.382	7179.591	6971.325	7007.920	6685.321	6781.748	6564.875
<b>10</b>	4457.724	4726.845	4566.198	4693.801	4400.420	4168.892	4179.844	3829.907	3920.243	3681.409
<b>15</b>	2267.512	2430.423	2315.183	2380.002	2180.251	2048.437	2035.718	1852.155	1889.359	1772.513
<b>20</b>	1330.380	1383.214	1332.418	1346.957	1259.765	1224.440	1217.902	1177.048	1184.686	1160.966
<b>25</b>	1104.055	1115.853	1099.039	1093.269	1065.221	1051.277	1054.710	1055.498	1059.818	1062.431
<b>30</b>	1032.391	1041.559	1029.902	1022.771	1003.962	991.493	995.206	992.015	999.567	994.429
<b>35</b>	932.798	948.636	935.466	935.535	914.707	894.860	892.875	864.037	867.107	837.200
<b>40</b>	683.813	726.544	710.808	719.951	675.188	622.804	614.450	551.155	547.120	505.454
<b>45</b>	391.704	413.914	415.349	401.282	385.584	342.313	337.767	305.218	293.448	276.428
<b>50</b>	278.978	281.754	275.806	275.857	267.681	264.300	269.567	260.491	244.725	238.990
<b>55</b>	173.518	181.271	169.997	181.320	173.738	166.708	184.057	170.015	171.319	154.558
<b>60</b>	54.470	59.119	56.274	60.113	58.935	56.055	65.263	59.926	63.923	58.539
<b>65</b>	21.891	23.108	25.177	23.697	25.219	29.119	35.138	32.260	34.007	30.498
<b>70</b>	21.295	25.281	21.592	20.495	21.857	26.877	27.841	32.673	30.964	33.837
<b>75</b>	22.117	16.978	20.432	18.322	18.324	28.322	32.227	31.031	34.557	30.598
<b>80</b>	11.886	15.800	14.705	14.800	14.663	27.969	24.359	26.577	28.341	25.817
<b>85</b>	5.601	6.816	7.275	8.111	7.419	19.702	15.334	15.498	17.226	16.152
<b>90</b>	2.387	0.698	1.849	0.850	1.277	8.882	4.173	10.483	4.056	12.028
<b>95</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>100</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>105</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>110</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>115</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>120</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>125</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>130</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>135</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>140</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>145</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>150</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>155</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>160</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>165</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>170</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>175</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>180</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**Vert. Angles**      **Horizontal Angles**

	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
<b>0</b>	8346.235	8346.235	8346.235	8346.235	8346.235	8346.235	8346.235
<b>5</b>	6715.313	6563.673	6761.865	7008.144	6966.056	7255.363	7192.181
<b>10</b>	3849.449	3704.808	3935.721	4208.375	4184.521	4523.938	4457.724
<b>15</b>	1853.658	1790.375	1919.993	2088.472	2099.149	2303.500	2267.512
<b>20</b>	1188.890	1168.961	1215.255	1260.384	1270.284	1343.172	1330.380
<b>25</b>	1070.606	1067.097	1075.047	1089.130	1089.075	1105.033	1104.055
<b>30</b>	1005.061	998.351	1011.612	1025.719	1026.200	1037.236	1032.391
<b>35</b>	861.102	839.476	884.433	903.480	907.629	936.863	932.798
<b>40</b>	525.769	512.813	550.682	601.492	614.007	681.134	683.813
<b>45</b>	292.735	293.136	295.174	331.238	341.397	383.079	391.704

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50	256.313	251.966	268.077	260.571	266.785	278.816	278.978
55	167.703	153.396	167.684	170.527	164.693	178.591	173.518
60	57.380	54.585	50.232	56.799	50.995	56.877	54.470
65	30.093	32.995	26.661	23.878	26.702	24.350	21.891
70	28.498	29.699	28.697	16.624	17.696	18.359	21.295
75	30.218	31.152	29.021	19.778	21.996	19.929	22.117
80	26.807	26.573	27.356	13.328	14.065	12.824	11.886
85	15.209	15.012	18.288	4.259	5.289	6.071	5.601
90	4.574	8.630	8.984	1.287	1.396	0.533	2.387
95	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	1229.11	N.A.	44.00
0-30	1738.44	N.A.	62.20
0-40	2272.08	N.A.	81.30
0-60	2720.07	N.A.	97.40
0-80	2779.62	N.A.	99.50
0-90	2792.63	N.A.	100.00
10-90	2209.73	N.A.	79.10
20-40	1042.97	N.A.	37.30
20-50	1343.54	N.A.	48.10
40-70	482.13	N.A.	17.30
60-80	59.54	N.A.	2.10
70-80	25.41	N.A.	0.90
80-90	13.02	N.A.	0.50
90-110	1.23	N.A.	0.00
90-120	1.23	N.A.	0.00
90-130	1.23	N.A.	0.00
90-150	1.23	N.A.	0.00
90-180	1.23	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	2793.87	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	582.90
10-20	646.20
20-30	509.33
30-40	533.64
40-50	300.57
50-60	147.43
60-70	34.13
70-80	25.41
80-90	13.02
90-100	1.23
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

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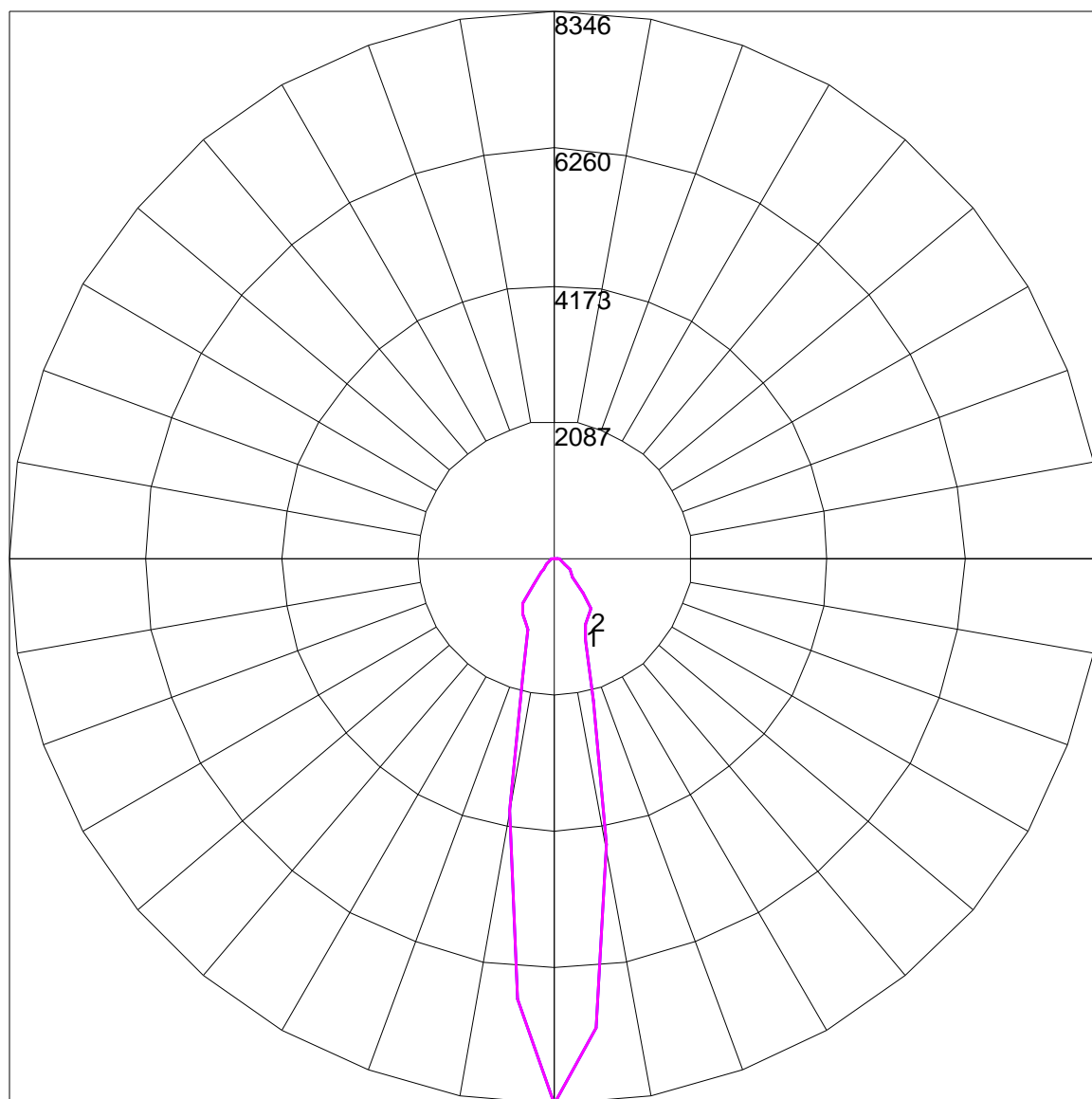
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	113	110	107	105	111	108	106	103	104	102	100	100	99	97	97	95	94	93
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	85
3	101	95	90	85	99	93	89	85	91	87	83	88	85	82	86	83	81	79
4	96	88	83	78	94	87	82	78	85	80	77	83	79	76	81	78	75	73
5	91	83	77	72	90	82	76	72	80	75	71	78	74	71	77	73	70	69
6	87	78	72	67	85	77	71	67	76	70	67	74	70	66	73	69	66	64
7	83	73	67	63	81	73	67	63	71	66	63	70	66	62	69	65	62	60
8	79	70	64	59	78	69	63	59	68	63	59	67	62	59	66	62	59	57
9	76	66	60	56	75	66	60	56	65	60	56	64	59	56	63	59	56	54
10	73	63	57	53	72	63	57	53	62	57	53	61	56	53	60	56	53	52

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POLAR GRAPH



Maximum Candela = 8346.235 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Vertical Plane Through Horizontal Angles (0 - 180)